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Amendments to the Specification

Please replace the paragraph beginning at Page 9, line 10 with the following amended paragraph:

Successful employment of the tool requires that the fiber optic cable be highly flexible and able to withstand the high temperatures encountered downhole. This latter requirement is fulfilled by a thermally protective shielding 34 36, as shown in Fig. 4, disposed around the fiber optic cable 18. In accordance with one preferred embodiment of this invention, the shielding is constructed in a manner that allows for twisting and bending. As shown in Fig. 3, the shielding 34 36 comprises a subdivided casing 34 that allows neighboring segments 41 to bend. In an alternative embodiment shown in Fig. 5, shielded fiber optic cable 18 is surrounded by a maneuverable system of interlocking braces 42 connected by free-sliding connectors 40. The maneuverable system, in turn, is surrounded by a flexible outer casing 43 that provides mountings for retractable spherical wheels 19.